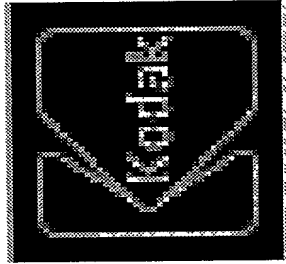A binary
message
comprised of
+1's and -1's

An iconic
message as
an edge map

Figure 1

Design for visual optimality

Design for extracted signal optimality

1/CSF(fx,fy)

FOURIER AMPLITUDE

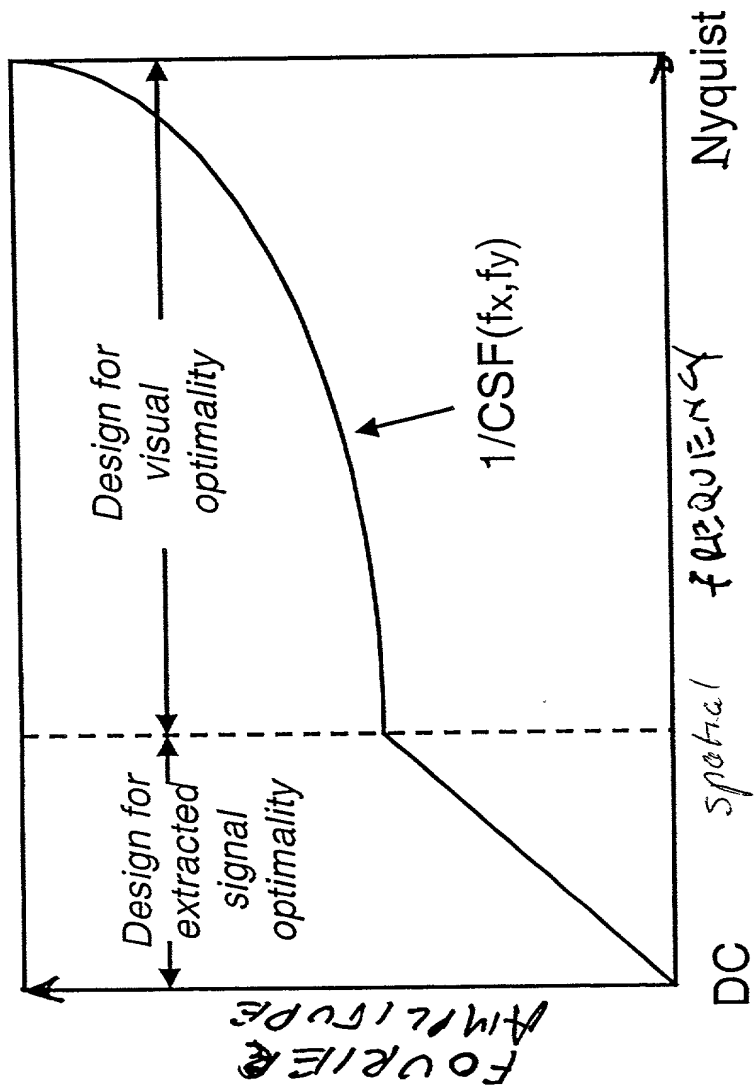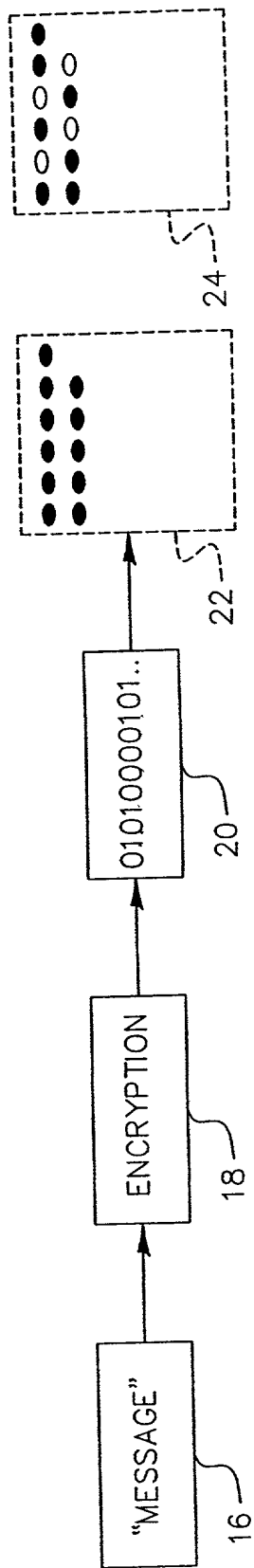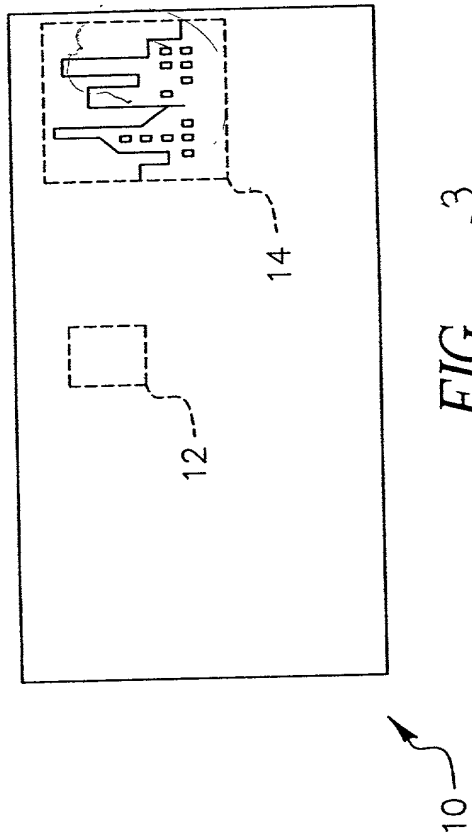DC   spatial frequency   Nyquist

FIG   2

The carrier is designed for extracted signal quality for low spatial frequencies and visual optimality for high spatial frequencies
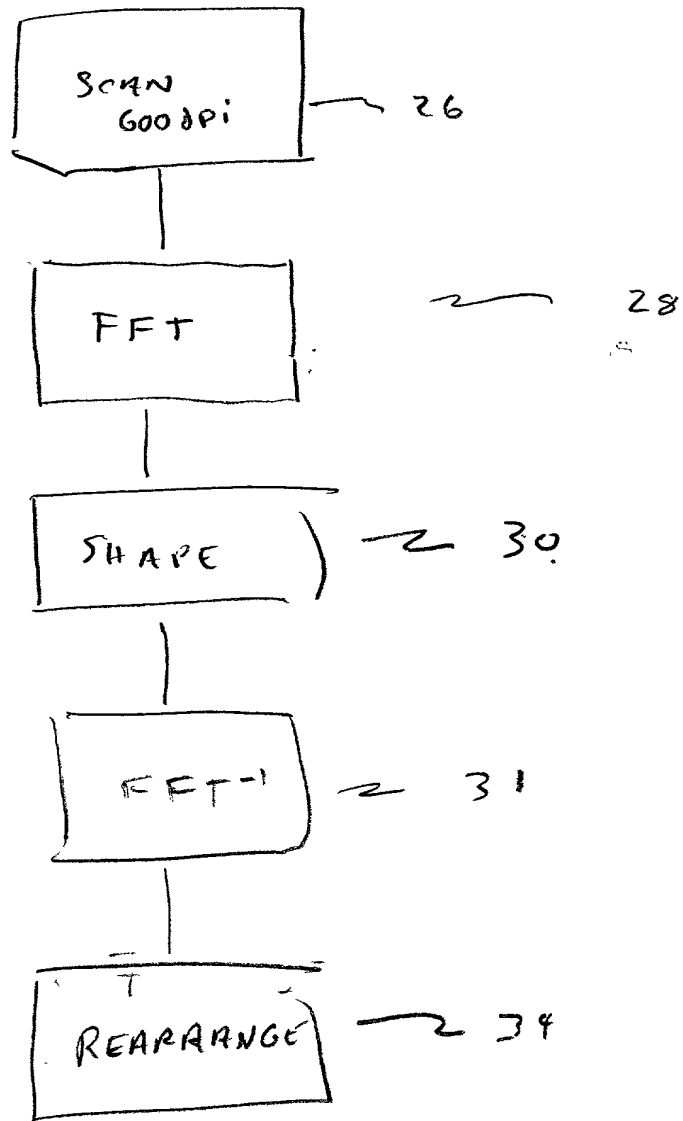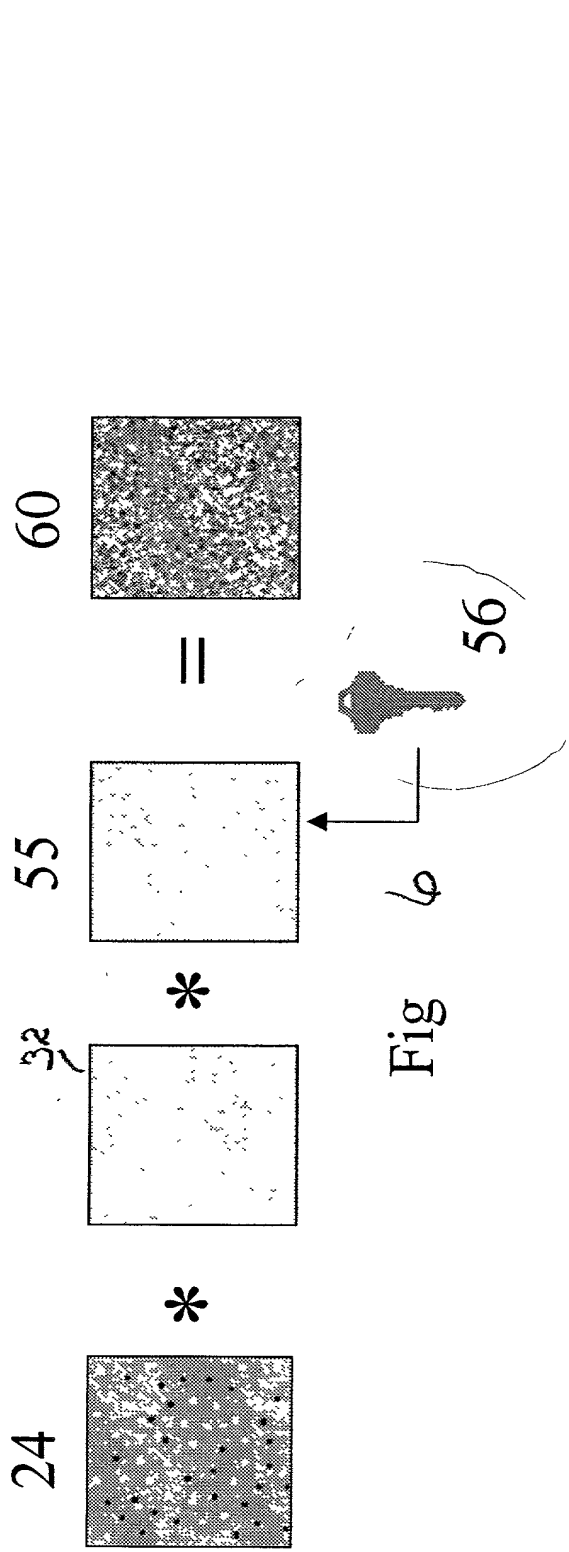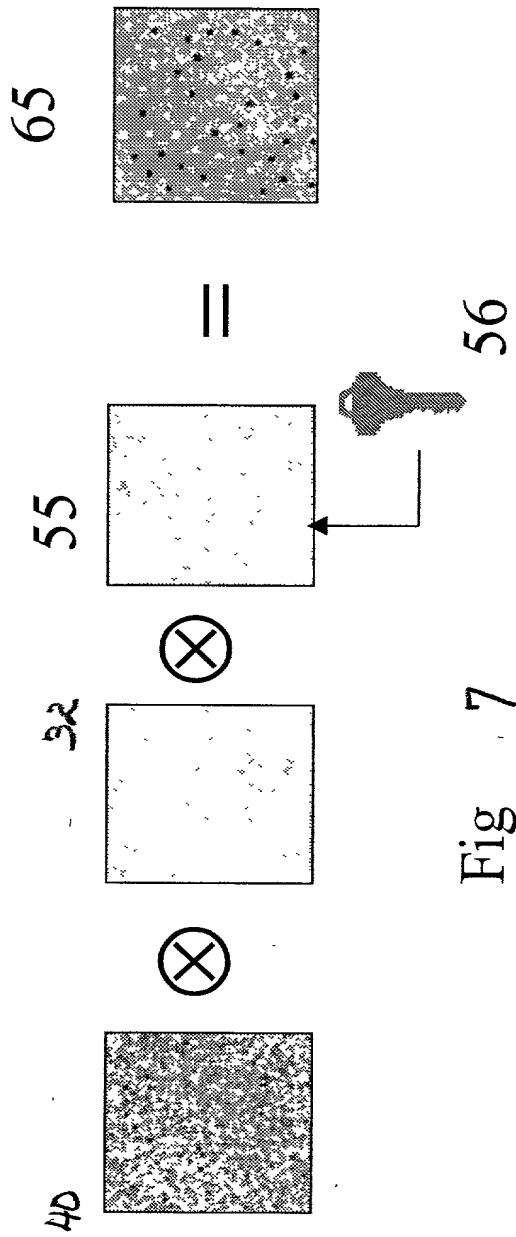
FIG. 3

10

12

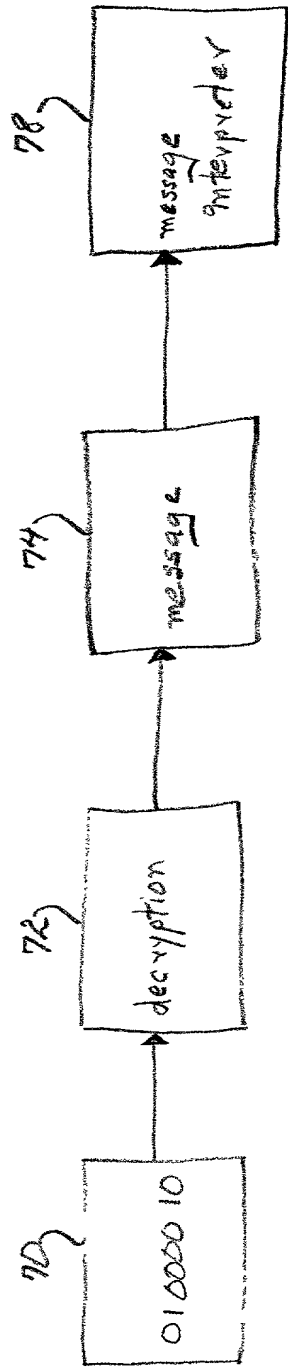14

FIG. 4

"MESSAGE"

16

ENCRYPTION

18

0101000101...

20

22

24

```
┌─────────────┐
│   SCAN      │ ──── 26
│  600 dpi    │
└──────┬──────┘
       │
┌──────┴──────┐
│    FFT      │ ──── 28
│             │
└──────┬──────┘
       │
┌──────┴──────┐
│   SHAPE     │ ──── 30
└──────┬──────┘
       │
┌──────┴──────┐
│   FFT⁻¹     │ ──── 31
└──────┬──────┘
       │
┌──────┴──────┐
│  REARRANGE  │ ──── 34
└─────────────┘
```

FIG. 5

Fig 6

Fig 7

70
01 0000 10

72
decryption

74
message

78
message
interpreter

FIG 8